

Publication list

Thesis, book chapters, manuals and reports

- Gens, R., 2017. [GNSS Remote Sensing: Theory, Methods and Applications \(by J. Shuanggen, E. Cardellach and F. Xie\)](#). Book review for *Photogrammetric Engineering & Remote Sensing*, 83(3):173.
- Gens, R. and Cristóbal Roselló, J., 2015. [Remote sensing data normalization](#). In Thenkabail, P.S. (ed.) *Remotely sensed data characterization, classification, and accuracies*. Taylor & Francis CRC Press, pp. 133-142.
- Gens, R., 2015. [Remote Sensing of Natural Resources \(by G. Wang and Q. Weng\)](#). Book review for *Photogrammetric Engineering & Remote Sensing*, 81(7):534-536.
- Prakash, A., Gens, R., Prasad, S., Raju, A. and Gupta, R.P., 2013. [Coal Fires in the Jharia Coalfield, India](#). In Stracher et al. (eds.) *Coal and peat fires: A global perspective, Volume 2, Photographs and multimedia tours*. Elsevier, p. 153-177.
- Stracher, G., with contributing authors (Gens, R.) by state (Alaska, Kentucky, Utah), 2013. [United States Coal Fires](#). In Stracher et al. (eds.) *Coal and peat fires: A global perspective, Volume 2, Photographs and multimedia tours*. Elsevier, p. 441-528.
- Gens, R., 2012. [Theme Issue "Innovative applications of SAR interferometry from modern satellite sensors"](#). Editorial in *ISPRS Journal of Photogrammetry and Remote Sensing*.
- Gens, R., 2012. Remote sensing of glaciers: Techniques for topographic, spatial and thematic mapping of glaciers (by P.K.E. Pellikka and W.G. Rees). Book review for *Photogrammetric Engineering & Remote Sensing*.
- Prakash, A. and Gens, R., 2011. [Remote sensing of coal fires](#). In Stracher et al. (eds.) *Coal and peat fires: A global perspective, Volume 1, Coal - combustion and geology*. Elsevier, p. 231-253.
- Gens, R., 2009. [Spectral Information Content of Remote Sensing Imagery](#). In Li et al. (eds.) *Geospatial Technology for Earth Observation*. Springer, p. 177-201.
- Gens, R., 2006. Remote sensing of snow and ice (by W.G. Rees). Book review for *ISPRS Highlights*.
- Gens, R. and Logan, T., 2003. Alaska Satellite Facility software tools: Manual. Geophysical Institute, UAF, ISBN 0-915360-16-0, 180 pages.
- Bree, R.J.P., Gens, R., Groot, J.S., Halsema, D. van, Hanssen, R.F., Hout, P. van den, Klees, R., Min, E. de, Schrama, E.J.O. and Usai, S., 2000. Deformation measurements with SAR. Netherlands Remote Sensing Board, USP-2-99-16.
- Genderen, J.L. van, Prakash, A., Gens, R., Veen, B.S. van, Liding, C., Tao, T.X. and Feng, G., 2000. Coal fire interferometry. Netherlands Remote Sensing Board, USP-2-99-32.
- Gens, R., 1998. [Quality assessment of SAR interferometric data](#). Doctoral thesis, University of Hannover, Germany, 141 pages.
- Genderen, J.L. van, Cassells, C. and Gens, R. (eds.), 1997. Synergy of remotely sensed data - A

European scientific research network. Final report, Enschede, the Netherlands, ISBN 90-6164-151-9, 81 pages.

Refereed journal papers

- McNabb R.W., Womble J.N., Prakash A., Gens, R. and Haselwimmer C.E., 2016. [Quantification and Analysis of Icebergs in a Tidewater Glacier Fjord Using an Object-Based Approach](#). PLoS ONE, 11 (11) 16 p.
- Starkenbug, D., Metzger, S., Fochesatto, G.J., Alfieri, J.G., Gens, R., Prakash, A. and Cristóbal, J., 2016. [Assessment of de-spiking methods for turbulence data in micrometeorology](#). Journal of Atmospheric and Oceanic Technology.
- Starkenbug, D., Fochesatto, G.J., Cristóbal, J., Prakash, A., Gens, R., Alfieri, J.G., Nagano, H., Harazono, Y., Iwata, H. and Kane, D.L., 2015. [Temperature regimes and turbulent heat fluxes across a heterogeneous canopy in an Alaskan boreal forest](#). Journal of Geophysical Research: Atmospheres, 120 (4): 1348-1360.
- Balser, A.W., Jones, J.B. and Gens, R., 2014. [Timing of Retrogressive Thaw Slump Initiation in the Noatak Basin, Northwest Alaska, USA](#). Journal of Geophysical Research: Earth Surface, 119 (5): 1106-1120.
- Floyd, A.L., Prakash, A., Meyer, F.J., Gens, R. and Liljedahl, A., 2014. [Using Synthetic Aperture Radar to Define Spring Breakup on the Kuparuk River, Northern Alaska](#). Arctic, 64 (4): 462-471.
- Mahoney, A.R., Eicken, H., Gaylord, A.G. and Gens, R., 2014. [Landfast sea ice extent in the Chukchi and Beaufort Seas: The annual cycle and decadal variability](#). Cold Regions Science and Technology, 103 (7): 41-56.
- Oommen, T., Baise, L.G., Gens, R., Prakash, A. and Gupta, R.P., 2013. [Documenting Earthquake-Induced Liquefaction Using Satellite Remote Sensing Image Transformations](#). Environmental and Engineering Geoscience, 19 (4): 303-318.
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- Gens, R., , 2013. [Geocoding of polarimetric processing results: Alternative processing strategies](#). Remote Sensing Letters, 4 (1): 39-45.
- Atwood, D.K., Small, D. and Gens, R., 2012. [Improving PolSAR Land Cover Classification With Radiometric Correction of the Coherency Matrix](#). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 5 (3): 848-856.
- Bieniek, P., Bhatt, U., Thoman, R., Angeloff, H., Partain, J., Papineau, J., Fritsch, F., Holloway, E., Walsh, J., Daly, C., Shulski, M., Hufford, G., Hill, D., Calos, S. and Gens, R., 2012. [Climate divisions for Alaska based on objective methods](#). Journal of Applied Meteorology and Climatology, 51 (7): 1276-1289.
- Wirth, L., Rosenberger, A., Prakash, A., Gens, R., Margraf, F.J., and Hamazaki, T., 2012 [A remote sensing / GIS-based approach to identify, characterize, and model spawning habitat for fall chum salmon in a sub-arctic, glacially-fed river](#). Transactions of the American Fisheries Society, 141 (5): 1349-1363.

- Prakash, A., Schaefer, K., Witte, W.K., Collins, K., Gens, R., and Goyette, M., 2011. [Remote Sensing - GIS Based Investigation of a Boreal Forest Coal Fire](#). International Journal of Coal Geology, 86 (1): 79-86.
- Bhatt, U.S., Walker, D.A., Reynolds, M.K., Comiso, J.C, Epstein, H.E., Jia, G., Gens, R., Pinzon, J.E., Tucker, C.J., Tweedie, C.E. and Webber, P.J., 2010. [Circumpolar Arctic tundra vegetation change is linked to sea-ice decline](#). Earth Interactions, 14 (8): 1-20.
- Gens, R., 2010. [Remote sensing of coastlines: Detection, extraction and monitoring](#). International Journal of Remote Sensing, 37 (7): 1819-1836.
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- Limpitlaw, D., and Gens, R., 2006. [Dambo mapping for environmental monitoring using Landsat TM and SAR imagery: Case study in the Zambian Copperbelt](#). International Journal of Remote Sensing, 27 (21): 4839-4845.
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- Gens, R., 2003. [Two-dimensional phase unwrapping for radar interferometry: developments and new challenges](#). International Journal of Remote Sensing, 24 (4): 703-710.
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- Gens, R., 2000. [The influence of input parameters on SAR interferometric processing and its implication on the calibration of SAR interferometric data](#). International Journal of Remote Sensing, 21 (8): 1767-1771.
- Gens, R., 1999. [Quality assessment of interferometrically derived digital elevation models](#). International Journal of Applied Earth Observation and Geoinformation, 1 (2): 102-108.
- Gens, R., 1999. SAR interferometry: Software, data format and data quality. Photogrammetric Engineering & Remote Sensing, 65 (12): 1375-1378.
- Prakash, A., Gens, R. and Vekerdy, Z., 1999. [Monitoring coal fires using multi-temporal night-time thermal images in a coalfield in North-west China](#). International Journal of Remote Sensing, 20 (14): 2883-2888.
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Proceedings papers and conference presentations

- Baekert, D.P., Hamlington, B., Gens, R., Kennedy, J.H., Havazli, E., Hogenson, K., Marshak, C., Meyer, F.J., Sangha, S., Short, G., Tiampo, K.F. and Lu, Z., 2021. Enabling Cloud-based InSAR

Science. AGU Fall Meeting, New Orleans, LA, USA.

Gens, R., Arnoult, K., Gracheva, V., Kistner, H. and Meyer, F.J., 2019. The Use of Spaceborne Imaging Radar-C (SIR-C) Data for Long-Term Monitoring and Change Detection. AGU Fall Meeting, San Francisco, CA, USA.

Cristóbal, J., Gens, R., Prakash, A., Langley, K., Anderson, M., Kustas, W.P., Abermann, J., Euskirchen, E.S., Friborg, T. and Hansen, B.U., 2019. Arctic tundra and boreal forest surface energy balance retrieval using a thermal-based remote sensing model. AGU Fall Meeting, San Francisco, CA, USA.

Gens, R., Arnoult, K., Gracheva, V., Meyer, F.J. and Rosen, P.A., 2018. Processing of Spaceborne Imaging Radar-C (SIR-C) Data at Full Resolution. AGU Fall Meeting, Washington, DC, USA.

Hogenson, K., Arko, S.A., Logan, T.A., Gens, R., Arnoult, K. and Nicoll, J.B., 2018. Hybrid Pluggable Processing Pipeline (HyP3): A cloud-based infrastructure for generic processing of SAR data. AGU Fall Meeting, Washington, DC, USA.

Arnoult, K., Friedl, P., Vijay, S., Braun, M., Meyer, F.J., Gracheva, V., Hogenson, K. and Gens, R. 2017. Estimating Velocities of Glaciers Using Sentinel-1 SAR Imagery. AGU Fall Meeting, New Orleans, LA, USA.

Bell, J.R., Schultz, L.A., Molthan, A., Kirschbaum, D., Roman, M., Yun, S.-H., Meyer, F.J., Hogenson, K., Gens, R., Goodman, H.M., Owen, S.E., Lou, Y., Amini, R., Glasscoe, M.T., Brentzel, K.W., Stefanov, W.L., Green, D.S., Murray, J.J., Seepersad, J., Struve, J.C. and Thompson, V. 2017. NASA Earth Science Disasters Program Response Activities During Hurricanes Harvey, Irma, and Maria in 2017. AGU Fall Meeting, New Orleans, LA, USA.

Gens, R. 2017. A Fresh Look at Spatio-Temporal Remote Sensing Data: Data Formats, Processing Flow, and Visualization. AGU Fall Meeting, New Orleans, LA, USA.

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Nicoll, J.B., Logan, T.A., Gens, R., Garron, J. and Hogenson, K., 2016. Prototyping Radiometrically Terrain Corrected Sentinel-1A Large-Scale Processing. AGU Fall Meeting, San Francisco, CA, USA.

Logan, T.A., Myers, A., Garron, J., Hogenson, K., Gens, R., and Nicoll, J.B., 2016. Land Deformation Product Development at the Alaska Satellite Facility. AGU Fall Meeting, San Francisco, CA, USA.

Gens, R., Hogenson, K., Wolf, V., Drew, L., Stern, T., Stoner, M. and Shapran, M., 2015. Making geospatial data in ASF archive readily accessible. AGU Fall Meeting, San Francisco, CA, USA.

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Prakash, A., Gens, R., Cristóbal, J., Waigl, C., Balazs, M., Graham, P., Butcher, C. and Sparrow, E., 2015. Using Place-Based Independent Class Projects as a Means to Hone Research Skills

- and Prepare a Future Geospatial Workforce. AGU Fall Meeting, San Francisco, CA, USA.
- Womble, J., McNabb, R., Gens, R. and Prakash, A., 2015. Spatio-temporal Variation in Glacier Ice as Habitat for Harbor Seals in an Alaskan Tidewater Glacier Fjord. AGU Fall Meeting, San Francisco, CA, USA.
- Balser, A., Jones, J. and Gens, R., 2014. Timing of Retrogressive Thaw Slump Initiation in the Noatak Basin, Northwest Alaska, USA. AGU Fall Meeting, San Francisco, CA, USA.
- Cristóbal J., Prakash, A., Starkenburg, D.,P., Fochesatto, G.J., Anderson, M., Kustas, W., Alfieri, J.G., Gens, R. and Kane, D.L., 2014. Calibration and validation of a two-source energy balance model to estimate surface energy fluxes in a sub-Arctic deciduous boreal forest.. 4th International Symposium on Recent Advances in Quantitative Remote Sensing, Valencia, Spain.
- Hutchings, J., Martini, K., Perovich, D., Rigor, I., Petty, A., Farrell, S., Gens, R. and Barker, E., 2014. The Expansion of the Marginal Ice Zone in the Pacific Arctic. AGU Fall Meeting, San Francisco, CA, USA.
- Logan, T., Nicoll, J., Laurencelle, J., Hogenson, K., Gens, R., Buechler, B., Barton, B., Shreve, W., Stern, T., Drew, L. and Guritz, R., 2014. Radiometrically Terrain Corrected ALOS PALSAR Data Available from the Alaska Satellite Facility. AGU Fall Meeting, San Francisco, CA, USA.
- McNabb, R., Womble, J., Prakash, A., Gens, R. and Ver Hoef, J., 2014. Object-Based Image Classification of Floating Ice Used as Habitat for Harbor Seals in a Tidewater Glacier Fjord in Alaska. AGU Fall Meeting, San Francisco, CA, USA.
- Waigl, C., Prakash, A., and Gens, R., 2013. The Arctic seen from space: enhancing STEM education with interactive learning. AGU Fall Meeting, San Francisco, CA, USA.
- Cristóbal J., Prakash, A., Starkenburg, D.P., Fochesatto, G.J., Anderson, M.C., Kustas, W.P., Alfieri, J.G., Gens, R., and Kane, D.L., 2013. Implementation of a two-source energy balance model in a sub-Arctic deciduous boreal forest. AGU Fall Meeting, San Francisco, CA, USA.
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- Prakash, A., Haselwimmer, C.E., Gens, R., Womble, J.N. and Hoef, J.V., 2013. Quantifying the Availability of Tidewater Glacial Ice as Habitat for Harbor Seals in a Tidewater Glacial Fjord in Alaska Using Object-Based Image Analysis of Airborne Visible Imagery. AGU Fall Meeting, San Francisco, CA, USA.
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- Tiwari, R.K, Gupta, R.P., Gens, R., and Prakash, A., 2012. Use of optical, thermal and microwave imagery for debris characterization in Bara-Shigri glacier, Himalayas, India. IEEE International Geoscience and Remote Sensing Symposium, Munich, Germany.
- Atwood, D., Arko, S.A., Gens, R. and Sanches, R., 2011. Enhancing the Accessibility and Utility of UAVSAR L-band SAR Data. AGU Fall Meeting, San Francisco, CA, USA.
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- Bieniek, P.A., Bhatt, U.S., Walker, D.A., Reynolds, M.K., Comiso, J.C., Epstein, H.E., Gens, R., Pinzon, J., Tucker, C.J., Steele, M. and Ozimek, C. 2010. Alaska tundra vegetation trends and their links to the large-scale climate. AGU Fall Meeting, San Francisco, CA, USA.
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- Oommen, T., Baise, L.G., Gens, R., Prakash, A. and Gupta, R.P., 2010. Applying Satellite Remote Sensing to Document Liquefaction Failures. Seismological Research Letters, 81(2): 253-283.
- Herrick, R.R., Sharpton, V.L., Gens, R., Ghent, R.R., Gilmore, M.S., Grimm, R.E., Johnson, C.L., McGovern, P.J., Meyer, F., Mouginiis-Mark, P.J., Plaut, J.J., Sandwell, D.T., Simons, M. and Solomon, S.C. 2009. The Rationale for a New High-resolution Imaging Radar Mission to Venus

AGU Fall Meeting, San Francisco, CA, USA.

Oommen, T., Baise, L.G., Gens, R., Prakash, A., and Gupta, R.P., 2009. Documenting Liquefaction Failures Using Satellite Remote Sensing and Artificial Intelligence Algorithms. AGU Fall Meeting, San Francisco, CA, USA.

Prakash, A., Anderson, M., Baise, L., Csaplovics, E., Fochesatto, J., Gens, R., Gupta, R.P., Kane, D., Mumm, J., Okkonen S.R., Oommen, T., Saha, A., Trochim, E., Wilson R., and Wyatt, C., 2009. HypsIRI Preparatory Science at the University of Alaska Fairbanks. Second HypsIRI Mission Science Workshop, Pasadena, CA, USA.

Gens, R., and Prakash, A., 2009. Remote Sensing for Mapping Earth Surface Composition and Change. Technical Session at the 43rd Alaska Surveying and Mapping Conference, Anchorage, AK, USA.

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Gens, R., Prakash, A. and Li, S. 2008. Mapping Deforestation In Parts Of The Amazon Forest Using JERS-1 SAR Images: Case Study For An Area North West Of Rondonia, Brazil AGU Fall Meeting, San Francisco, CA, USA.

Oommen, T., Baise, L.G., Gens, R., Prakash, A. and Gupta, R.P., 2008. Multisensor and Multispectral Approach in Documenting and Analyzing Liquefaction Hazard using Remote Sensing AGU Fall Meeting, San Francisco, CA, USA.

Gens, R., 2008. Building and Experiential Learning Pathway for Information Extraction from SAR Data. ISPRS Congress, Beijing, China.

Gens, R., Barker, E. and Backstrom, L., 2007. Making sea ice Motion Data From RGPS More Accessible. AGU Fall Meeting, San Francisco, CA, USA.

Li, S., Wurtz, T. and Gens, R. 2007. A Preliminary Study of Biomass Estimation of Boreal Forest in Alaska Using ALOS PALSAR Polarimetric Images. AGU Fall Meeting, San Francisco, CA, USA.

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Gens, R., and Barker, E. 2007. Promoting data accessibility for IPY research and education. First International Circumpolar Conference on Geospatial Sciences and Applications, Yellowknife, NWT, Canada.

Sarkar, S., Prakash, A., and Gens, R., 2007. Detecting unique structures in early fall lake ice in Alaska North Slope using optical and SAR images, AAAS Annual Meeting, Anchorage, AK, USA.

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- Gens, R., Prakash, A. and McClung, S., 2006. Polar Remote Sensing: A Web Resource to Promote the Use of Remote Sensing Data in Undergraduate Education and Research. AGU Fall Meeting, San Francisco, CA, USA.
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- Gens, R., 2006. From SAR data to information: Status, trends and future. ISPRS Mid-term Symposium "Remote Sensing: From Pixels to Processes", Enschede, the Netherlands. Invited keynote address.
- Gens, R., Prakash, A. and Gupta, A., 2005. Explaining earth and space science concepts to middle school children through interactive web based stories. 2005 Joint Assembly, New Orleans, USA.
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